OC-M81-504 29 June 1981

25X1	FROM:	ee Distribution) rector of Communications	
	SUBJECT: OC	Executive Board Agenda - July 1981	
25X1 25X1	6 July 1981 (Monday Room 2. The only is sideration is a rev	cutive Board is scheduled to meet on at 0900 hours in the D/CO Conference (U) tem on the agenda for the Board's coniew of selected courses (see attached) r elimination. (S)	25X1
	OCHR-M81-256 Distribution: 1 - DD/CO w/att.		
	1 - C/OC-FND w/att. 1 - C/OC-ED w/att 1 - C/OC-CSD w/att 1 - C/OC-HRD w/at 1 - C/OC-SSD w/at 1 - C/OC-P&B w/at	t. t. t.	25X

WARNING NOTICE--INTELLIGENCE SOURCES AND METHODS INVOLVED

OCHR-M81-256

	MEMORANDUM FOR:	Chairman, OC Executive Board		
25X1	FROM:	(C) Chier, Human Resources Division	, OC	
	SUBJECT:	Review of Selected Courses	(C) A9C3.4 2	5X1
25X1	add courses to to or ineffective to task. To avoid has review for the courses requirements or If the recommend consideration ar	ionally educational institutions their curricula, but eliminating training programs is a more different this pitfall, the ewed its curriculum and proposes weral courses. Attached are desembled which do not seem to meet presembled to the can be conducted more effect at the course of the approved, would be able to	obsolete icult to change criptions nt Office iciently. under o reallocate 2	5X1 5X1
	(S) A9C5.1	00 square feet to training on ne		5X1
25X1	are valid in ter approval is requested have been so attached listing	are that any changes in the man of OC requirements, Executive aired. Consequently representate the duled to brief the Board on 6 of courses provides a synopsise and ations. (C) R9C3.4	e Board ives for July. The	271
	SCHOOL S Lecomme	(c) Rajes. 4	(C) A9C3.4	5X1
	Attachment: As stated			

WARNING NOTICE SENSITIVE INTELLIGENCE SOURCES AND METHODS INVOLVED

Hods INVOLVED Approved For Release 2006/12/00: CIA-RDP83-00531R000100130001-5

Course

OPS-300 (AFT-II Operator Training)

Description

Course is designed to train the operator in the day-to-day operation of the Automated Field Terminal (AFT-II). It provides the student with the ability to STARTUP, SHUTDOWN, and RESTORE the system as well as perform other functions necessary to keep station files, tables, and logs up-to-date. The student is taught message flow with the system and procedures for operating the SPILL position and CONSOLE. Some limited maintenance is presented along with COMSEC procedures as they pertain to shipment of hardware/software, emergency destruction, and terminal sanitization. All AFT-II commands are also taught.

Schedule -

5 resident runnings per year

CY80 Runnings

Resident: None

Field: 3 (total 10 Students)

Length

: 120 hours

Class Size

Maximum 4 (resident)

Population Trained: 19

Value

If the student's first assignment is to an active AFT-II site, then OPS-300 will be mandatory.

Recommendation

Schedule runnings on a call-up basis only for those communicators who are assigned to an active AFT-II station. Area back AFT-II operators who are assigned to non-AFT stations should receive a one-week introductory course consisting of routinely used commands, OCR operations, console operations, opening and closing station procedures and AFT-II security requirements.

Alternatives

No residency AFT-II training. All primary and backup operator training to be conducted on-site when AFT-II system initially activated. STAT

 Training be conducted by DND trainers at facility.

3. Continue regularly scheduled quarterly runnings with a course length of 80 hours covering all operation aspects of the AFT-II. Maximum enrollment set for 3 operators.

Course

OPS-105 (Field Station Administration and Management)

Description

Course is divided into two segments with each

segment presented separately.

Administration: Deals with the use of OC documents to guide the field station personnel in the per-

formance of their duties.

Managerial: Concentrates on the role of the OC first-line manager and supervisor to impact the basic skills required to perform the management and supervisory functions necessary in a base or field station environment.

Schedule

10 runnings per year

CY80 Runnings.

5 (11 students total)

Length

80 hours

Class Size

Maximum 10

Population Trained: 239

Value

The course is valuable but is somewhat duplicative of OTE offerings. OTE's Fundamentals of Supervision and Fundamentals of Administration are better structured to meet the needs of the OIC and supervisor.

Recommendation

It is recommended that this course be reduced to 40 hours of self-study in administration only and that it be given on a call-up basis. Recommend that the existing OTE course be used to the management training objectives. The material used for the present course is in a constant state of change as the OC administrative policies are revised. The self-study method would not require an instructor to be present in the classroom at all times but be available for any questions the student may have:

Alternatives

Cancel all resident course runnings and provide the new manager/supervisor a self-study package at post or have the area headquarters administer the training.

Course

: OPS-107 (KW-7 Limited Maik enance)

Description

Provides the student with block diagram level knowledge of the theory of operation as both a transmitter and a receiver; ability to make all adjustments specified in the KW-7 Limited Maintenance Manual; knowledge of external connections and signal characteristics; overall equipment troubleshooting ability by board substitution; understanding of TEMPEST considerations.

Schedule

: 12 runnings per year

CY80 Runnings

: 10 (total 45 students)

Course Length

40 hours

Class Size

6 Maximum

Population Trained: 411

Value

Highly valuable. This particular course is given to all communicators being assigned to KW-7 field stations. Due to the large number of personnel trained in this system, the number of requirements has dropped off and it is becoming apparent that it is no longer necessary to schedule monthly runnings of this course.

Recommendation

It is recommended that the number of scheduled yearly runnings be reduced to six (6), the minimum number of students required to start a running be established as three (3), with the maximum class size remaining at six (6). As the office moves toward more high-speed circuitry, the KW-7 is being utilized more as back than primary equipment. The equipment/classroom for the course is also used by the Technical Training Department for their full maintenance course which is 3 weeks in length. The equipment for this course also occupies the same classroom as the equipment for OPS-109. As we prepare the facility to receive new equipment for network modernization, it would not be feasible to provide separate classrooms for OPS-107, OPS-109, and the Technical Full Maintenance Course.

Alternatives

None

Course

: OPS-108 (KW-26 Limited Maintenance)

Description

Designed to provide the student with detailed block diagram level knowledge of theory of operation; ability to perform all adjustments as specified in the limited maintenance manual; knowledge of external connections and signal characteristics; overall equipment troubleshooting ability by board or package substitution; an understanding of TEMPEST considerations as they relate to the KW-26.

Schedule

: Call-up

CY80 Runnings

3 (3 students total)

Length

40 hours

Class Size

3 maximum

Population Trained:

346

Value

This device is limited to just one area within

the overseas network.

Recommendations

This course should be cancelled because of the number already trained, only 3 students were trained in 1980, and the equipment is only deployed in certain block countries. The number of people already trained should allow AEB to be more selective in assigning operators to KW-26 stations until this

equipment is phased out completely.

Alternatives

The training could be provided at the area HQS enroute or by the area HQS at post after arrival.

Course

: OPS-109 (M-28 Limited Mai enance)

Description

Provide the student with basic knowledge of M-28 and HW-28 operating theory to the assembly level; ability to perform selected minor adjustments and to replace selected parts; ability to troubleshoot to the assembly level; basic knowledge of applicable MWO's.

Schedule :

: 11 runnings per year

CY80 Runnings

: 13 (total 63 students)

Course Length

40 hours

Class Size

Maximum 6

Population Trained:

473

Value

Very valuable to any communicator being assigned to a field station. Due to the large number of employees that have already been trained, monthly runnings of this course are no longer needed.

Recommendation

Recommend a reduction in scheduled runnings to six (6) per year, that the minimum number of students necessary to start a course be established as three (3) with the maximum number of students per course remaining at six (6). This recommendation is based on the population already trained, the training being included in the TCA program, and a world-wide replacement for this equipment at hand. The equipment used for this course occupies the same classroom as the equipment for OPS-107. As we prepare the facility to receive new equipment for network modernization, it would not be feasible to provide separate classrooms for OPS-107 and OPS-109. The classroom for this training is also used by the Technical Training Department for the KW-7 Full Maintenance course.

Alternative

Designate the course as call-up and limited the enrollment to students going to posts where no OPS-109 trained employee is assigned.

Approved For Release 2006/12/08: CIA-RDP83-00531R000100130001-5

Course

Description

Provides the student with:

1. Ability to properly operate the SC-1A and SC-1B satellite terminals using the vocoder, CCU, KG-13, and KW-7 ancillary equipment. This includes procedures for terminal cold starts, satellite acquisition, operation in teletype and alternate voice/data (AVD) modes, and methods to revert to back-up HF radio equipment in the event of system failure.

2. System troubleshooting utilizing system's internal test loops to locate faulty equipment and to substitute and/or bypass it where possible. System preventive maintenance is also included.

Schedule

: 5 runnings per year

CY80 Runnings

: 11 (58 students total)

Length

120 hours

Class Size

Maximum 6

Population Trained:

421

Value:

Valuable, however, student could receive enough training at post to become efficient until the SC-3 replacement is installed and on-site professional training is provided.

Recommendation

Recommend that the running of the OPS-115 course on a regularly scheduled basis be changed to a limited call-up course depending upon the availability of an instructor and equipment, and that AEB be selective in choosing assignees to SC-1 posts and only choose individuals, if at all possible, who have had prior SC-1 training and experience. The SC-3 is rapidly replacing the SC-1 now installed in most of our satellite stations. The SC-3 is being installed at posts that do not have satellite capability at this time. One of the SC-1 terminals used for resident training has been removed from WCS and replaced with a second SC-3.

Alternative

: Assignee receive enough training at post by other operators to become efficient until the SC-3 replacement is installed and on-site professional training is provided.



Course
Description

Schedule

: 10 runnings per year

STAT

CY80 Runnings

: 10 (total of 22 students)

Length

: 40 hours

Class Size

: Maximum 6

Population Trained

: 92

STAT

Value

: None

Recommendations

Recommend cancellation of the resident course at Keeping an instructor and classroom space, both valuable commodities, occuppied for one entire week to accommodate an average of 2 students is not cost effective especially when instructors are in high demand and classroom space is needed to house new equipment for the courses that will become necessary for network modernization.

Alternatives

: OTS perform the training or training be provided at post of assignment.

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***	Approved For Release 2006/12/08: CIA-RDP83-00531R000100130001-5 SUBJECT: Communications Training A9C5.2	STA
TATINTL	given under the designation of OPS-117. It is often ad hoc in nature and aimed at the specific individuals and posts involved. OPS-117 is of greater value to the communi-	STA
TATINTL	meeting each student's needs in all cases. Equipment used in field communications training is held by	STA
	in the removal of this equipment from the School. This prevents the student from seeing actual equipment until reaching the field. Many of the newer systems like have never been available to the School. The effectiveness of the training in terms of equipment availability is more often the training in terms of equipment availability is more often	STAT
TATINTL	the training in terms of equipment availability is more than not the product of the instructor's efforts to borrow specific items of interest to the student and the assigned post. (S) A9C2.2	
TATINTL	4. Training related to communications is included in the basic TCS programs Antenna theory, propagation, and HF communications skills are taught in OPS-101, the Panel D EOD program. A pilot self-study course for communicators in STATII	STA
	the field also covers these topics. The use of propagation charts has not been emphasized since the removal of a phase from EOD training, but is being returned to the curriculum this year. Improvements in Morse code skills training are also taking place in the forms of computer assisted instruction and more realistic testing procedures. Both of these actions will tend to enhance future resident and OJT programs in the field communications skills. (S) A9C2.	STA
	5. The Office of Communications is responsible for the management of position packages, but does not provide any for training in this work. OC is also responsible for conducting on-the-job training of base station communicators, but does not provide any formal training in these skills to supervisors. Training takes place certainly, but is not documented in such a way or to the degree that it can be used as a management tool to identify our resources in this area. (S) A9C2.2	
	6. Several options exist if we attempt to improve communications operational and managerial training. One option is to negotiate the transfer of communications training to the Office of Technical Services. This would be in keeping with the basis of our mutual agreement defining areas	STA STA

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	Approved For Release 2006/12/08: CIA-RDP83-00531R000100130001-5 SUBJECT: Communications Training (C) 9C5.2	STA
STATINTL STATINTL STATINTL STATINTL	of interest and responsibility. No formal basis now exists for the tasking of OC with this training; it is done on the basis of a policy interpretation. OTS would have the option of contracting with OC to provide training and related services facility or at another site. One advantage or moving training to another location would be the freeing of classroom space within a vaulted area of the School for staff training purposes. Another advantage of a move from would be the end to a duplication of effort at and the facility; e.g., separate sets of identical equipment and other training material at two locations. (S) A9C2.	
STATINTL STATINTL	7. A second option is for OC to retain the training responsibility, but to drop all resident training and shift training to the field sites. could assist in formalizing STA OJT programs, in "training trainers", and in achieving the goal of standardized, valid, and documented training. Some training related to field station agent equipment might remain This idea could be expanded to encompass the work now done The services of an instructor from OTS would be required if this degree of consolidation were to take place. (S) A9C2.2	
	8. An additional effort would be required in the area of facilities management skills. This would involve the preparation of a new course which would be taught if rotation schedules permitted or in the field as a self-study package. (C) A9C3.4	ΓINTL
	9. The present situation is not satisfactory. We fall short of what could be done with an effective reallocation of available resources, a sharing of responsibilities, and a clear definition of roles. Information available to us indicates that there will be no reduction communications requirements in the foreseeable future. There exists, however, a gradual reduction in the number of experienced individuals in this field. An effective training program can be used to increase the number of people who can operate and manage communications systems. (S) A9C2.2	STA STA



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Course

TEC-139 (R-390 Receiver Maintenance)

Description

This course is designed to provide the student with knowledge of the signal flow path (emphasis on frequency conversion), typical faults, troubleshooting methods and MWO's. The student will make selected electrical and mechanical adjustments and conduct performance measurements.

Schedule

: 4 runnings per year

CY-80 Runnings

4 (15 students)

Length

24 hours

Class Size

2 to 5

Population Trained:

225

Value

Due to the large population trained and the antiquity of the equipment, value is minimal. It may even be detrimental in that today's technical student has little or no background in tube circuitry and regression from solid-state technology may be demotivating.

Recommendation

Cancel the course and rely on the population to

maintain the R-390's until replaced by

state-of-the-art receivers.

Alternatives

OJT in the field.

Course	:	TEC-191 (Current Installation Practices)
Description	:	
		STATINTL
Schedule	:	4 runnings per year
CY-80 Runnings	:	4 (25 students) - 1 (6 students) - 1 (4 STAT SC-3 contractors)
Length	:	120 hours
Class Size	:	4 to 6
Population Trained	:	150
Value	;	Extremely valuable. A basis for the proper installation of our worldwide network.
Recommendation	•	CIP, the generator course, and the chiller course can be better taught by a UES person, rather than a technician instructor. recommendsSTATINTL assigning a UES person to the ITD Instructor Staff which would free up technician trainers for closer related instructional duties.
Alternatives	:	Reduce the course to a one-week red/blue book standards training scenario and teach practical applications OJT.

Course

TEC-202 (M-28/HW-28 Full Maintenance)

Description

This course coverssmaintenance, troubleshooting and repair of the M-28 ASR and HW-28. Included are disassembly, assembly and adjustment of the printer, reperforator, TD, keyboard and punch. COMSEC inspection procedures and applicable MWO's

are also discussed.

Schedule

4 runnings per year

CY-80 Runnings

: 4 (25 students total)

Length

: 160 hours

Class Size

: 2 to 8

Population Trained:

239

Value

Disassembly of teletype equipment at Area field stations is no longer required and is not considered cost-effective. Technolians, as well as operators, return defective printers, reperfs, TD's, and other whole components to

either Area for repair.

STATINTL

Recommendation

This course should be cancelled due to the large number of technicians already trained in full maintenance of teletype equipment. HRD/AEB should be able to assign technicians with full maintenance abilities to those few positions that require full maintenance expertise.

Alternatives

- A. External training, coordinated on a demand basis.
- B. Reduce training to a Least Replaceable Unit (LRU) for both technicians and operators.

Course : TEC-310 (SC-1 Satellite Terminal Equipment

Maintenance)

Description : This course is designed to provide the student

with the knowledge of system configuration and the ability to perform overall system maintenance and operation. including the use of related test

equipment.

Schedule : 2 runnings per year

CY-80 Runnings : 2 (7 students)

Length : 160 hours

Class Size : 2 to 6

Population Trained: 105

Value : Considering number of technicians trained and

the number of terminal breakdowns that require

technical assistance, the value is moderate.

Recommendation : The course should be cancelled. HRD/AEB should

be able to pick from the numbers already trained in order to meet the Network's needs until all SC-1 terminals are replaced by SC-3 systems.

3641 fetilitials are replaced by so a systems.

Alternatives : Reduce the training schedule to a call-up basis.

Course : TEC-320 (SC-2 Satellite Terminal Equipment

Maintenance)

Description : This course is designed to provide the student

with the knowledge of SC-2 system configuration and the ability to perform fault isloation down

to the Least Replaceable Unit (LRU) level.

Schedule : Call-up

CY-8- Runnings : 1 (3 students)

Length : 80 hours

Class Size : 2 to 6

Population Trained: 28

Value : Zero. All SC-2 have been redesigned as SC-4

wideband entry terminals with SC-3 baseband

equipment.

Recommendations : Cancel. Start up SC-4 training.

Course

TEC-410 (SKYMUX/MX-113 Limited Maintenance)

Description

This course is designed to provide the student with the knowledge of the purpose and placement of the MX-113 in a communications system. The student will gain the ability to recognize correct programming of all printed circuit boards and channel assignment cards. The student will also be able to recognize proper operations by

observing front panel indicators.

Schedule

2\runnings per year

CY-80 Runnings

: 2 (8 students)

Length

: 40 hours

Class Size

2 to 6

Population Trained:

32

Value

The course is a "hands-on" application of the microfiche MX-113 package located at every

overseas site.

Recommendation

Cancel residency training and build a self-admin-

istered training package that can be used as

part of an OJT program in the field.

Alternatives

Reduce to a one-day module and incorporate into

the SC-3

STAT

Course

TEC-503 (KY-3 Maintenance)

Description

This course is designed to provide the student with the knowledge of associated logic and schematic diagrams, red/black TEMPEST considerations, switching circuits and capability of call-director. The student will also gain the ability to align and adjust the unit, troubleshoot to the component level, and understand the mandatory

MWO's associated with the unit.

Schedule

Call-up

CY-80 Runnings

None

Length

240 hours

Class Size

2 to 3

Population Trained:

32

Value

STATINTL

Minimal in the foreign network, moderate in

the domestic network.

Recommendation

Cancel. The numbers of technicians trained coupled with the length of training required, makes this course no longer cost-effective to Requirements for this training train should be arrected or some other

external training establishment.

Alternatives

None

STAT

Course

TEC-534/535 (KG-34/HN-74 Accelerated Full

Maintenance)

Description

This course is designed to provide the student with the knowledge of normal equipment operating

procedures, external connections and signal

characteristics, red/black concepts, installation and TEMPEST requirements. The student will also gain the ability to troubleshoot the equipment to the board level, adjust power supply voltages,

and make necessary clock pulse adjustments.

Schedule

2 runnings per year

CY-80 Runnings

1 tutorial (2 students)

Length

: 80 hours

Class Size

2 to 4

Population Trained:

32

Value

Minimal in the foreign network, Moderate

in the domestic network.

Recommendation

Cancel. Obtain KG-34 training from NSA.

Alternatives

Since all component repair is presently contracted,

an in-depth knowledge of KG-34 maintenance is

probably not needed. A reduced self-administered course to be used on-site in DND might be

appropriate.

Course

TEC-538 (KW-7 Accelerated Full Maintenance)

Description

This course is designed to provide the student with the knowledge of normal equipment operating procedures, external connections and signal characteristics, TEMPEST and red/black COMSEC criteria, and a detailed signal flow analysis of the KW-7. The student will also gain the ability to perform all adjustments in accordance with specifications, perform modifications and identify those already performed, and troubleshoot the unit to the Least Replaceable Unit (LRU) or board level. The student will also receive a detailed analysis of AK-4 installation.

Schedule

4 runnings per year

CY-80 Runnings

4 (18 students)

Length

120 hours

Class Size

2 to 6

Population Trained:

205

Value

Due to the number of technicians already trained, the remaining life-span of the KW-7 within the network, and the time expended on full maintenance training, the value is in question.

Recommendation

Cancel and allow the existing trained technician to

support the unit until replacement.

Alternatives

Based on approval of NSA, reduce the course to

a one-week board swapping exercise.

Course : TEC-600 (EOD Engineer Indoctrination Seminar)

Description : This course is designed to provide the newly

hired OC engineer with an overview of the Office of Communications, its missions and staff communications network. The student is given a briefing and an opportunity to operate most of the equipment used in OC's worldwide communications network. In addition, OCHB-F 50.30.2, "Field Station Installation Criteria"

and the Standards Handbook STATINTL

are covered in detail.

Schedule : 2 runnings per year

CY-80 Runnings : 1 (6 students)

Length : 160 hours

Class Size : 2 to 5

Population Trained: 50

Value : While the seminar is beneficial, the cost in

plant space and instructor resources for a

four-week period makes it questionable.

Recommendation : Reduce the seminar to a three-day orientation

STATINTL program followed up with scheduled visits

and briefings by all OC components. STATINT

Alternatives : Conduct a two-week orientation that would include

guest lecturers coordinated by the Registration

and Academic Department (RASD). The reduction

would preclude site/component visits.

Course

TEC-801/802 (ARS/MAX Maintenance)

Description

This course is designed to train the student in maintenance computer message switch. In addition to block level instruction, the student is also trained in troubleshooting hardware including all peripheral devices.

Schedule

1 running of MAX or ARS per year

CY-80 Runnings

1 (3 students)

Length

240 hours

Class Size

2-to 6

Population Trained:

30 on MAX - 17 on ARS

Value

STATINTL .

The value is questionable due to the numbers already trained in relation to the time and resources needed to train additional personnel. STAT not have a system to train on and has to rely

or Headquarters to provide a system to This has an adverse impact on their

operational requirements.

Recommendation

Cancel the course and allow a contractor trainer to conduct on-site training. Reduce length of

training.

Course

TEC-803 (Automated Field Terminal (AFT) Limited

Maintenance)

Description

This course provides limited maintenance training in the troubleshooting and repair of the AFT System. Included are the Interdata 8/16 Processor Instruction Set, Basic Program

Entering, Diagnostic Tests, Disk Drive Maintenance and Alignment, M-40, OCR, and Comline Interfacing, AFT System Operation

and Operator Commands.

Schedule

: 2 runnings per year

CY-80 Runnings

2 (5 students) - also field training (8 students)

Length

Value

160 hours

Class Size

2 to 4

Population Trained:

18
STATINT
A very complex system requiring maximum hands-on

to retain competence in maintenance abilities.

Limited units in selected Areas, i.e.,

STATINTL

Recommendations

Cancel residency training and utilize population

trained to support this limited system.

Alternatives

OJT on-site.

R	OUTING AND	RECOR	D SHEET	
SUBJECT: (Optional)				
Review of	Selected Cou	rses	(C) A9C3.4 STAT	NTI
FROM:		EXTENSION	OCHR-M81-256	
C/Human Resources Divis	ion, OC		DATE	
TO: (Officer designation, room number, and building)	DATE RECEIVEDS FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)	
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FORM 1-79